Systems Hardware Integration Engineer

JOB # 417

We're a close-knit family that enjoys working with each other in an entrepreneurial environment. As a key member of our special team, you won't feel as if you're nothing more than a minor cog in the wheel of a large bureaucratic engineering department. Imagine being able to work on some of the most advanced improvements with optical tracking devices on a worldwide basis over the upcoming years.

Photo-Sonics, Inc. is an international leader in state-of-the art optical tracking systems in Chatsworth and has an immediate opening for a Systems Hardware Integration Engineer. We're seeking a multi-disciplinary candidate who is self-motivated and is able to set and meet goals. The company is seeking an analytical, flexible and organized leader who can not only work as part of a dynamic team that specializes in developing state-of the art test range instrumentation but also be responsible for day-to-day monitoring and control of projects.

The Systems Hardware Integration Engineer will oversee the integration of electro-mechanical and optical systems and will provide strong technical support for cross-functional groups involved in the development, assembly, test, verification, manufacture, application, and service of complex optical instrumentation. The individual will provide systems engineering support to program teams. This hands-on position will facilitate compliance of design and manufacturing with capability requirements through all hardware phases of the project, from initial concept design through systems analysis/engineering, planning, execution and testing. Candidate will be responsible for interfacing between the design team and the production team, will be the focal point responsible for coordinating schedule work flow between the design team and the production team to ensure that the product meets or exceeds the project requirements.

Job Responsibilities include but not limited to:

- Work closely with Chief Systems Architect as well as with program team to define system concept and flow down system requirements to sub-systems; manage and document system configurations.
- Support new product development and ongoing programs.
- Design and build electro-mechanical instrumentation or components
- Develop and complete system specifications, technical reports and analysis.
- Create and review product requirements and designs for hardware;
- Analyze and enhance the functioning of current instrumentation and systems
- Become familiar/learn the working of current instrumentation and develop hardware tools for adding functionality and/or improving their performance

- Integrate and test the hardware elements of our optical tracking mount systems, including commercial off-the-shelf (COTS) components.
- Integration and testing occur both on-site at Photo-Sonics and at various customer locations throughout the United States and overseas.
- Travel requirements may be required.
- International travel may be required, on occasion.
- Develop and execute system electrical test plans for product releases.
- Work closely with engineering professionals within the company to maintain hardware and software needed for projects to be completed efficiently
- Requires knowledge across several specialized engineering disciplines (e.g., electrical, electro-mechanical/controls.)
- Design and process related documentation.
- Accountability to handle priorities,
- Provide technical content for proposals and technical reports.
- Any other tasks assigned by management

Qualifications and Experience Requirements:

- Position requires Bachelor's degree in Electronics Engineering, with minimum of 3 years of hardware integration experience.
- Candidate must have experience with embedded processors and computer-based systems.
- Cameras and optical sensors knowledge preferred
- Prefer experience in servo control methods, electro optical systems, and electro mechanicals.
- Technical writing skills
- Familiarity with MS Office software.
- Prior experience with government contracts is desirable.
- Knowledge of fiber optics system design for network communications systems, including familiarity with video interfacing systems and other communication devices are beneficial but training is provided as required.
- Good understanding of network infrastructure

The physical requirements of this position require ability to walk; sit, stand, use hands; reach with hands and arms; and climb or balance. Additional physical requirements may require the ability to lift up to 50 pounds. Vision requirements include ability to adjust focus, depth perception, peripheral, distance, color and close vision.

Affirmative Action/EOE